

Figure 1

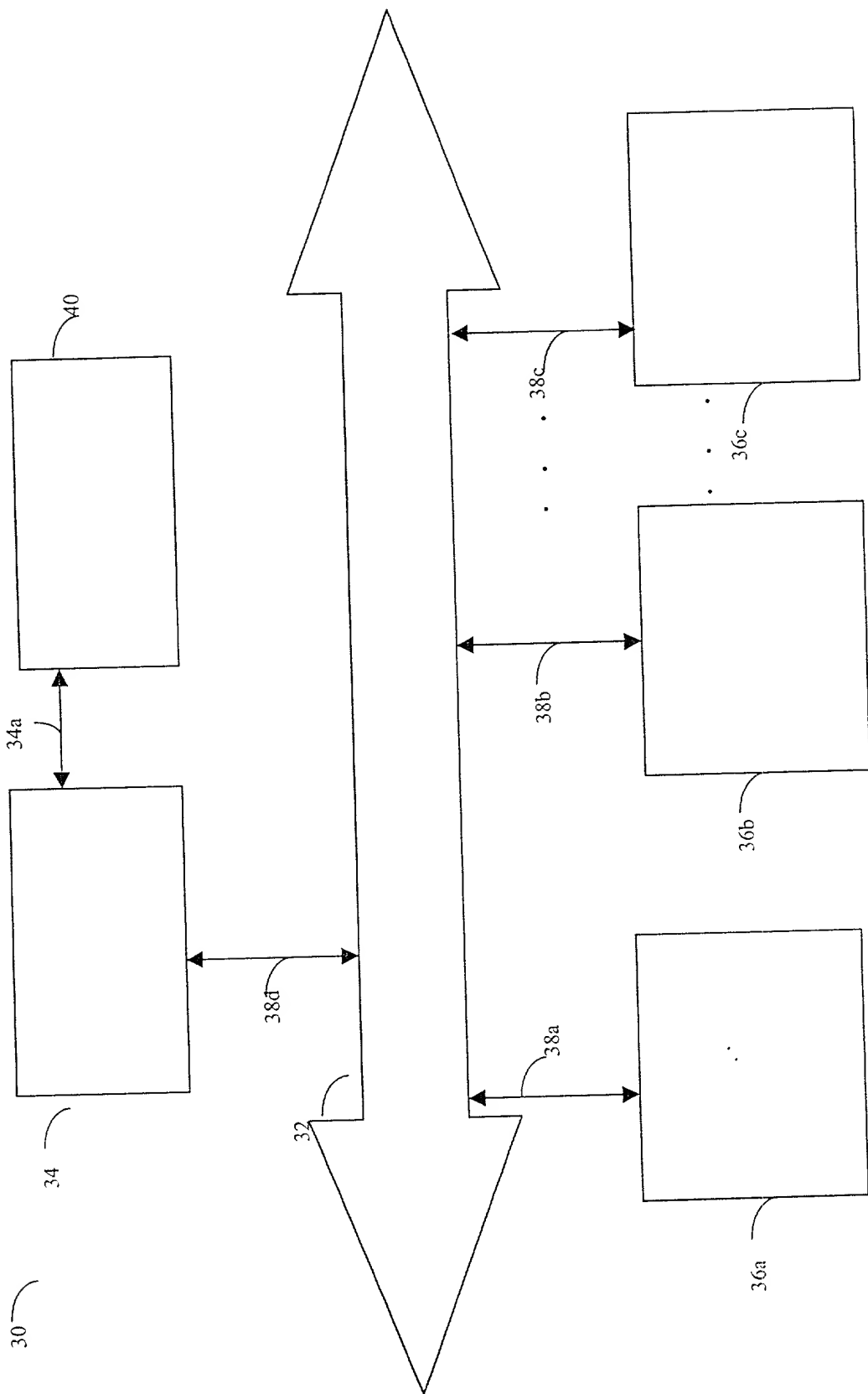


FIGURE 2

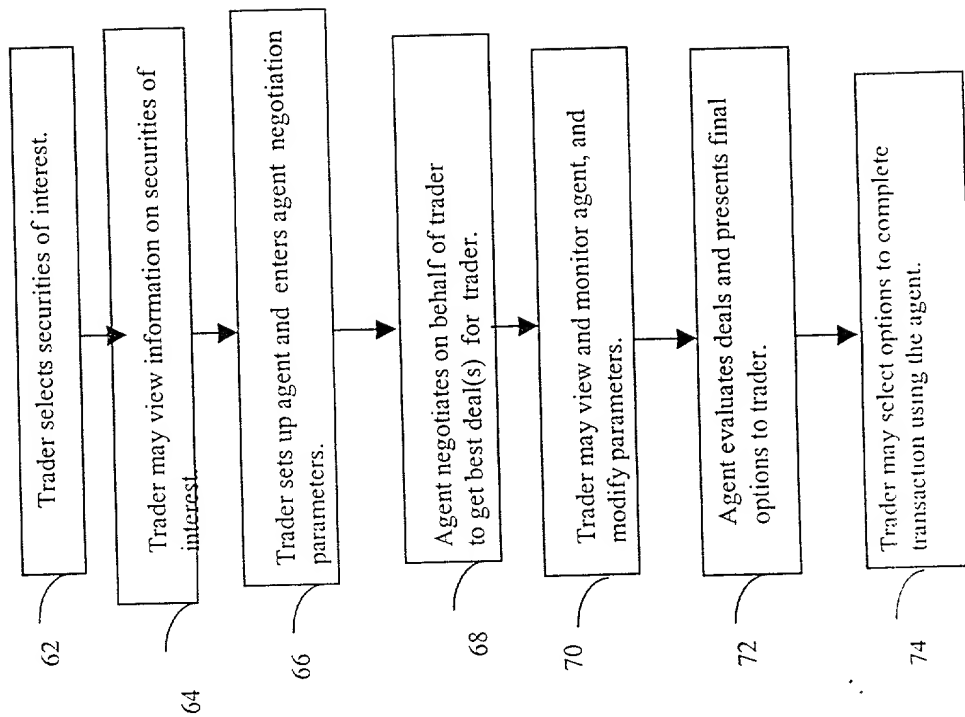


FIGURE 3

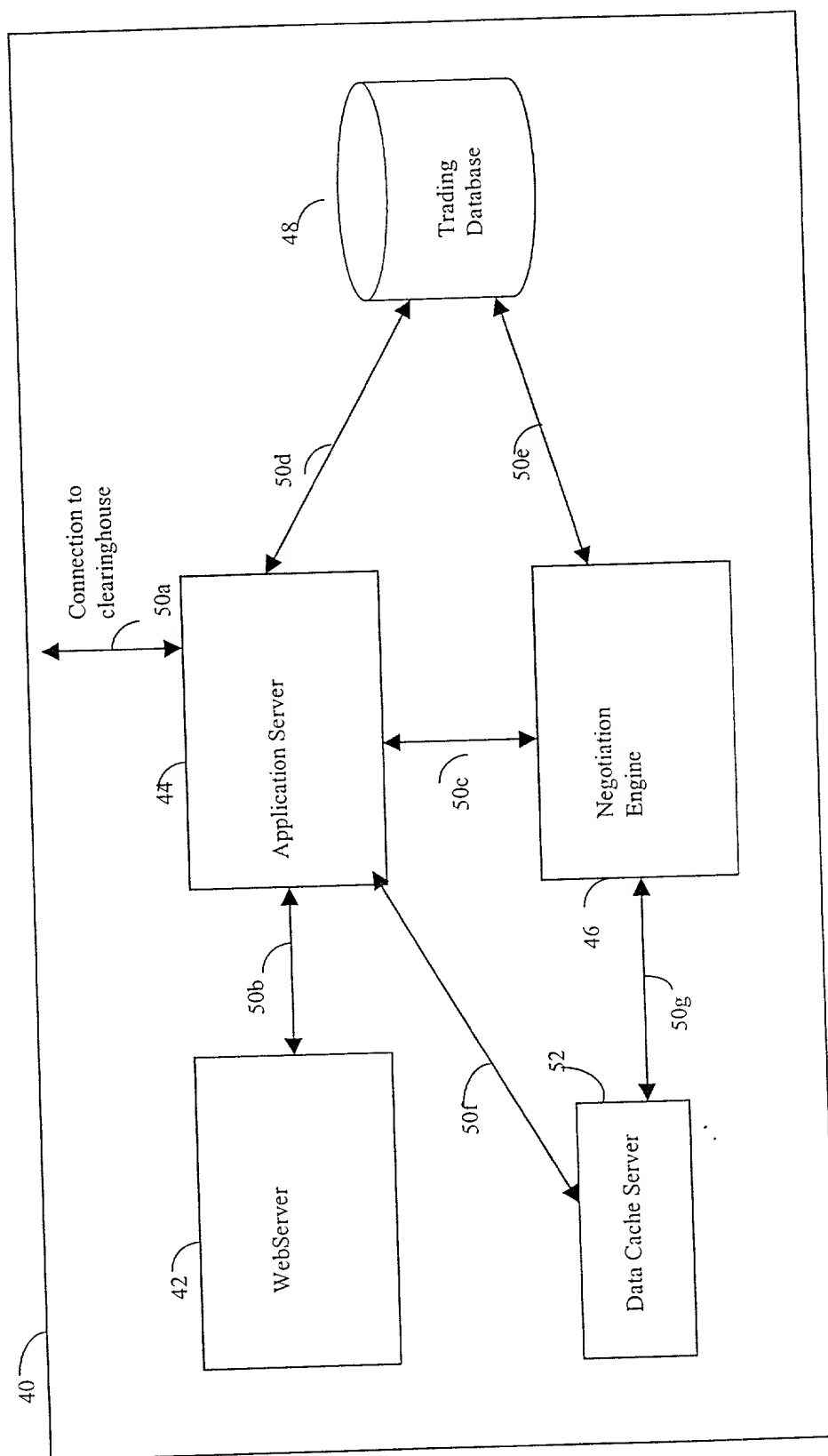


FIGURE 4

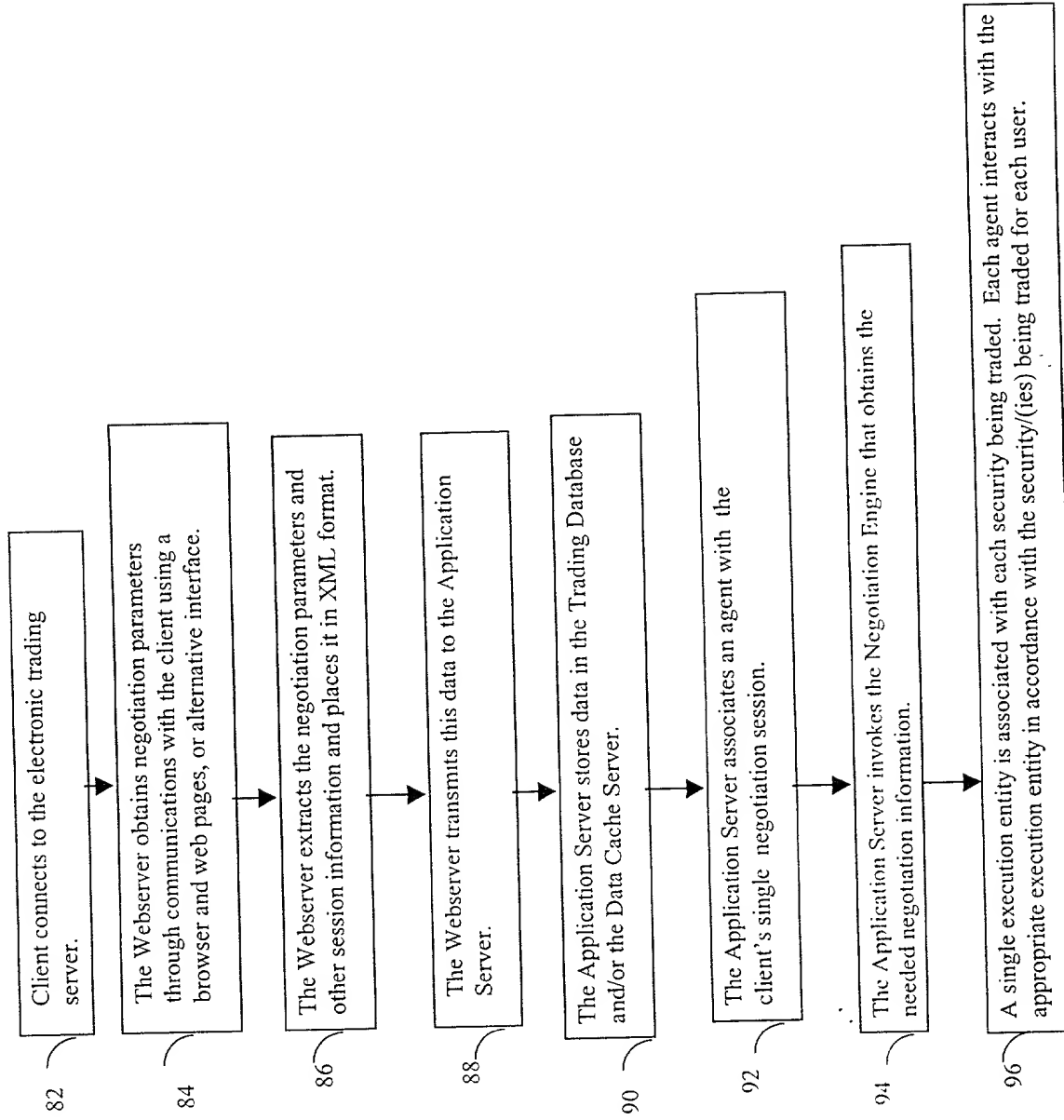


FIGURE 5

44

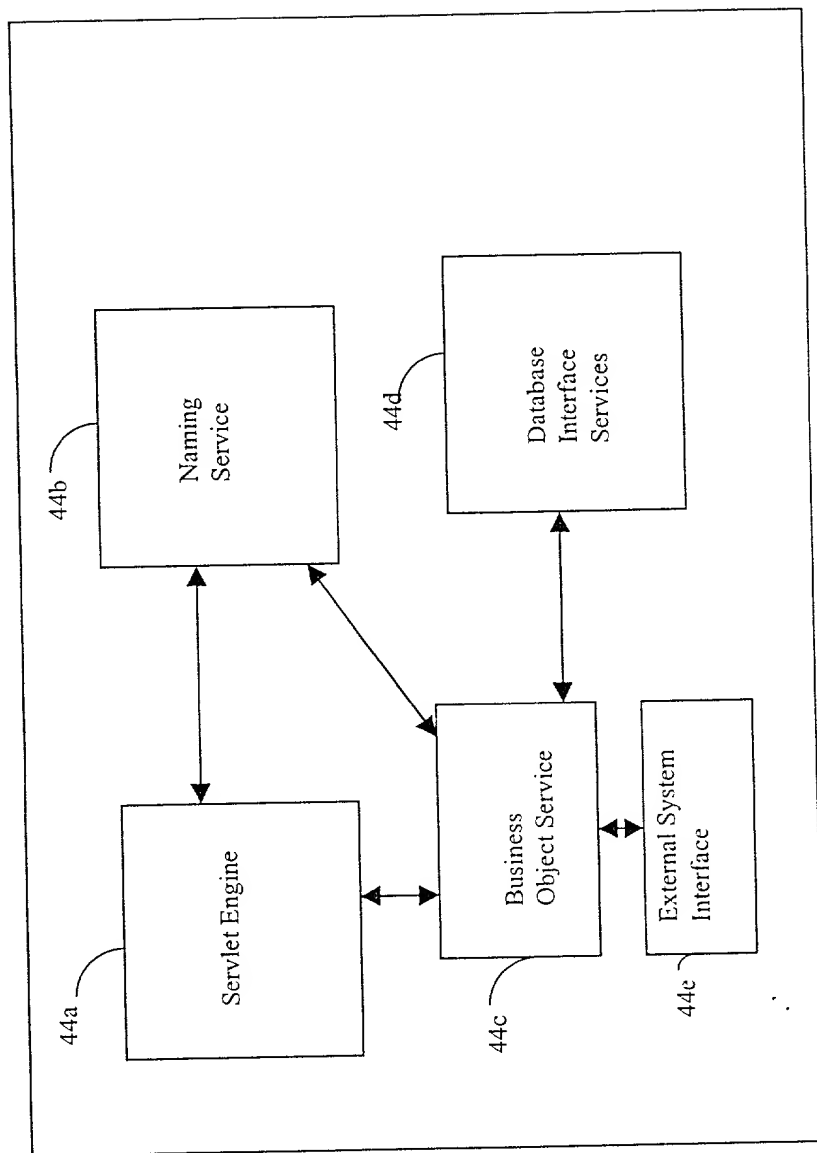


FIGURE 6

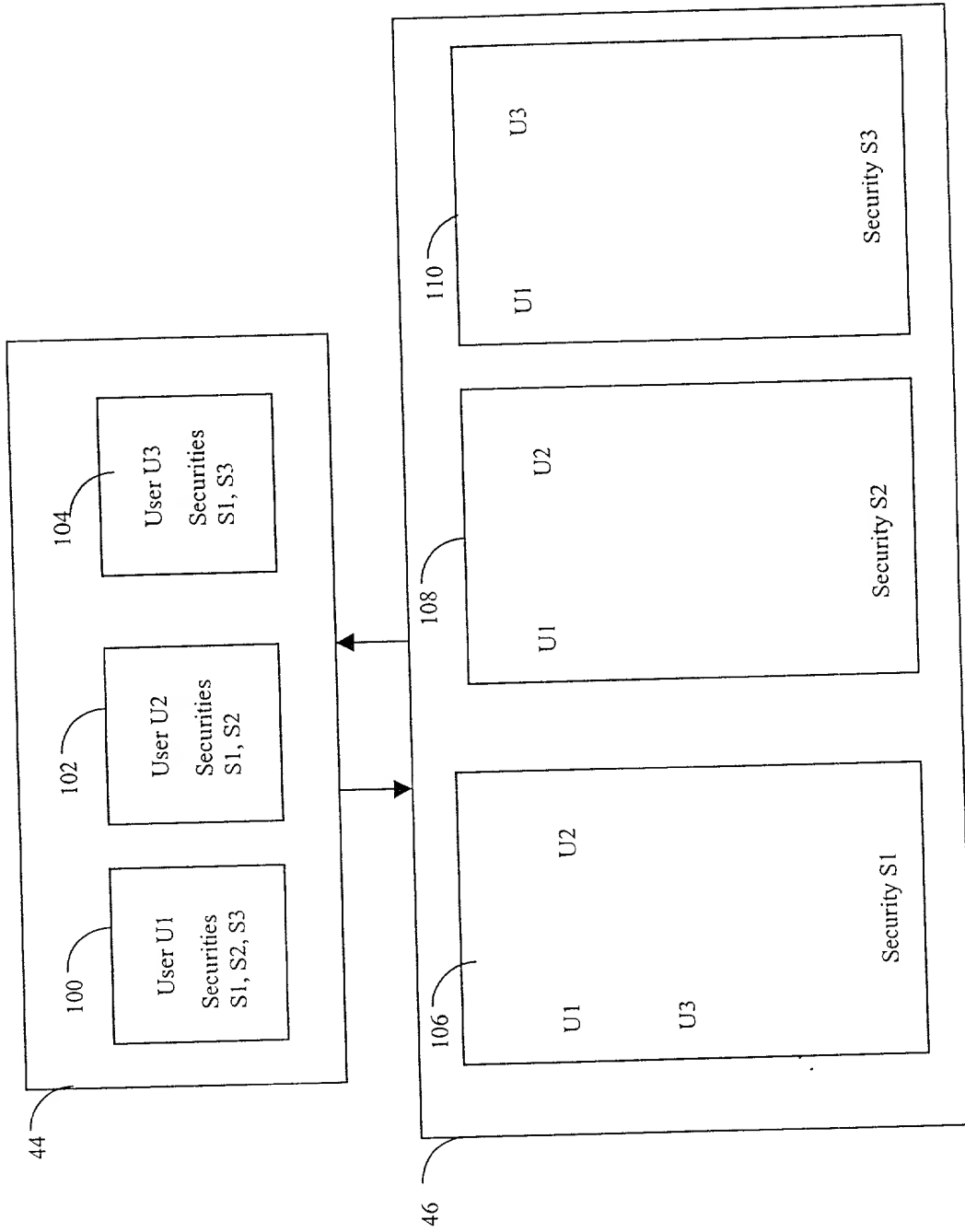


FIGURE 7

FIGURE 8

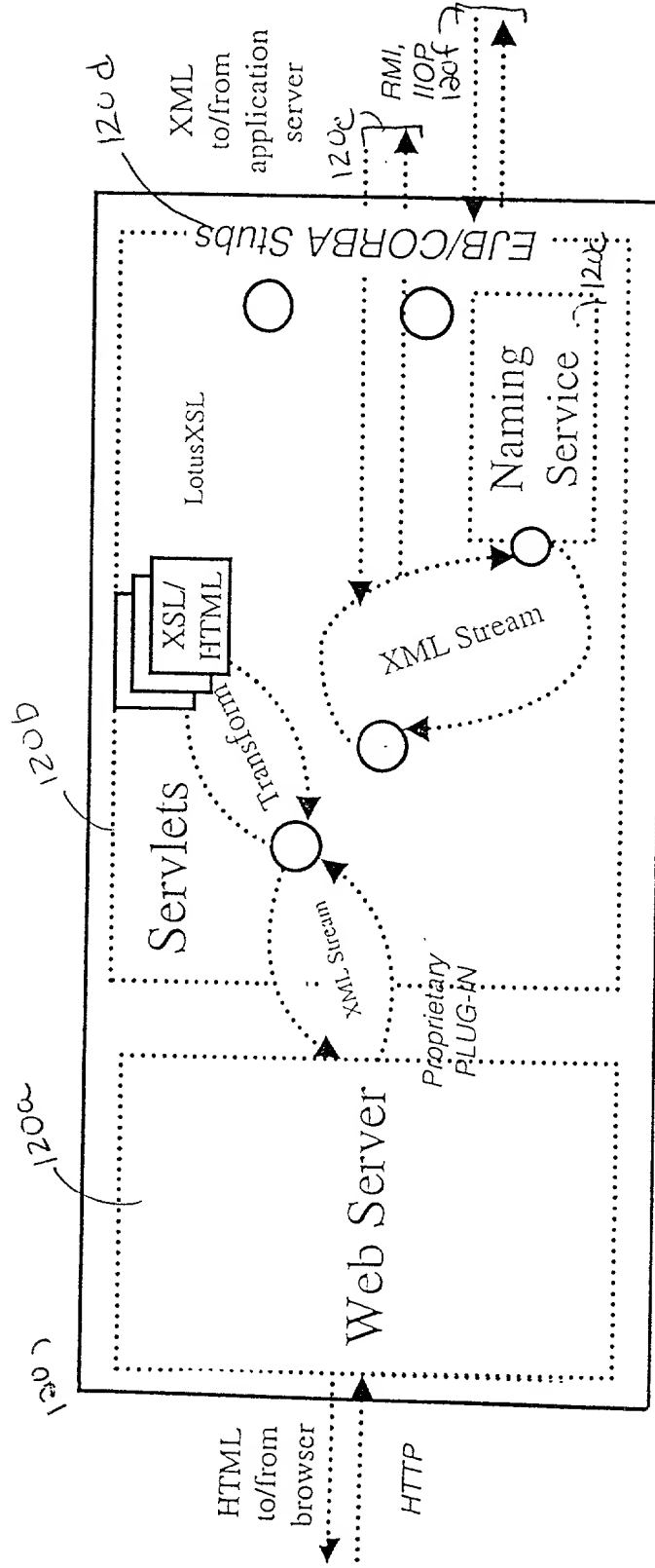
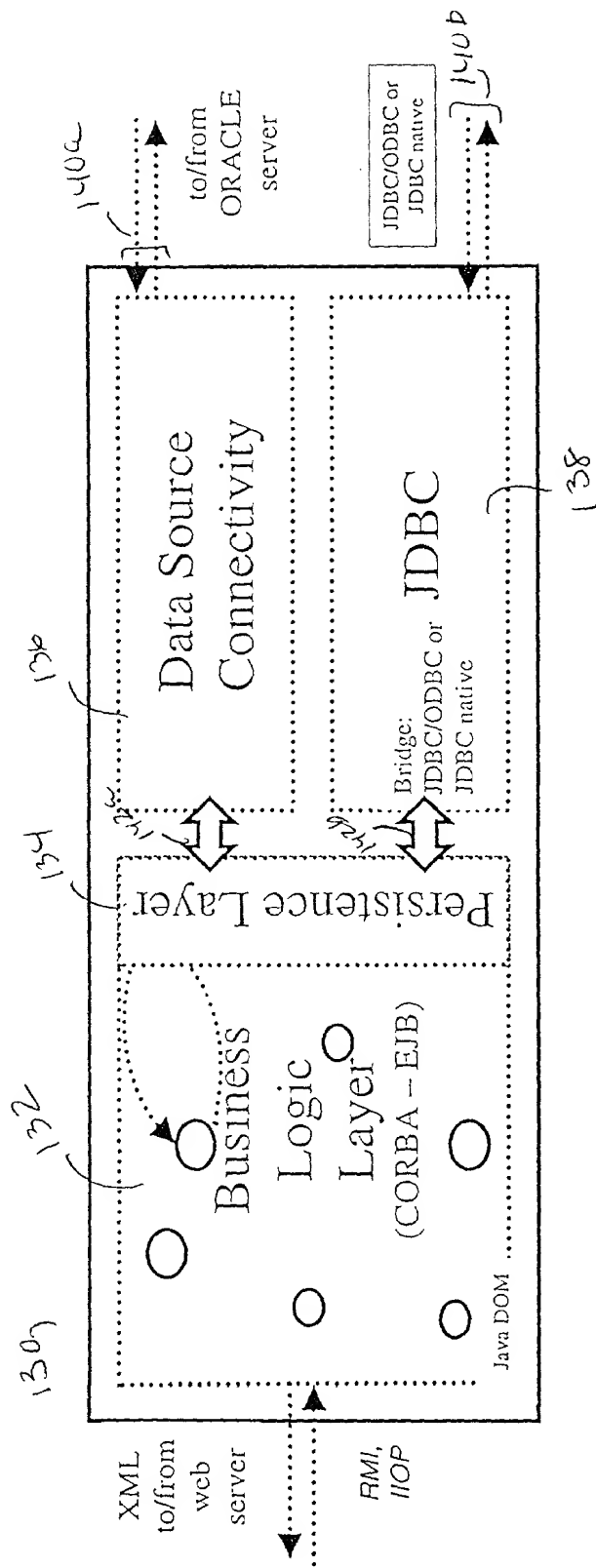


FIGURE 9



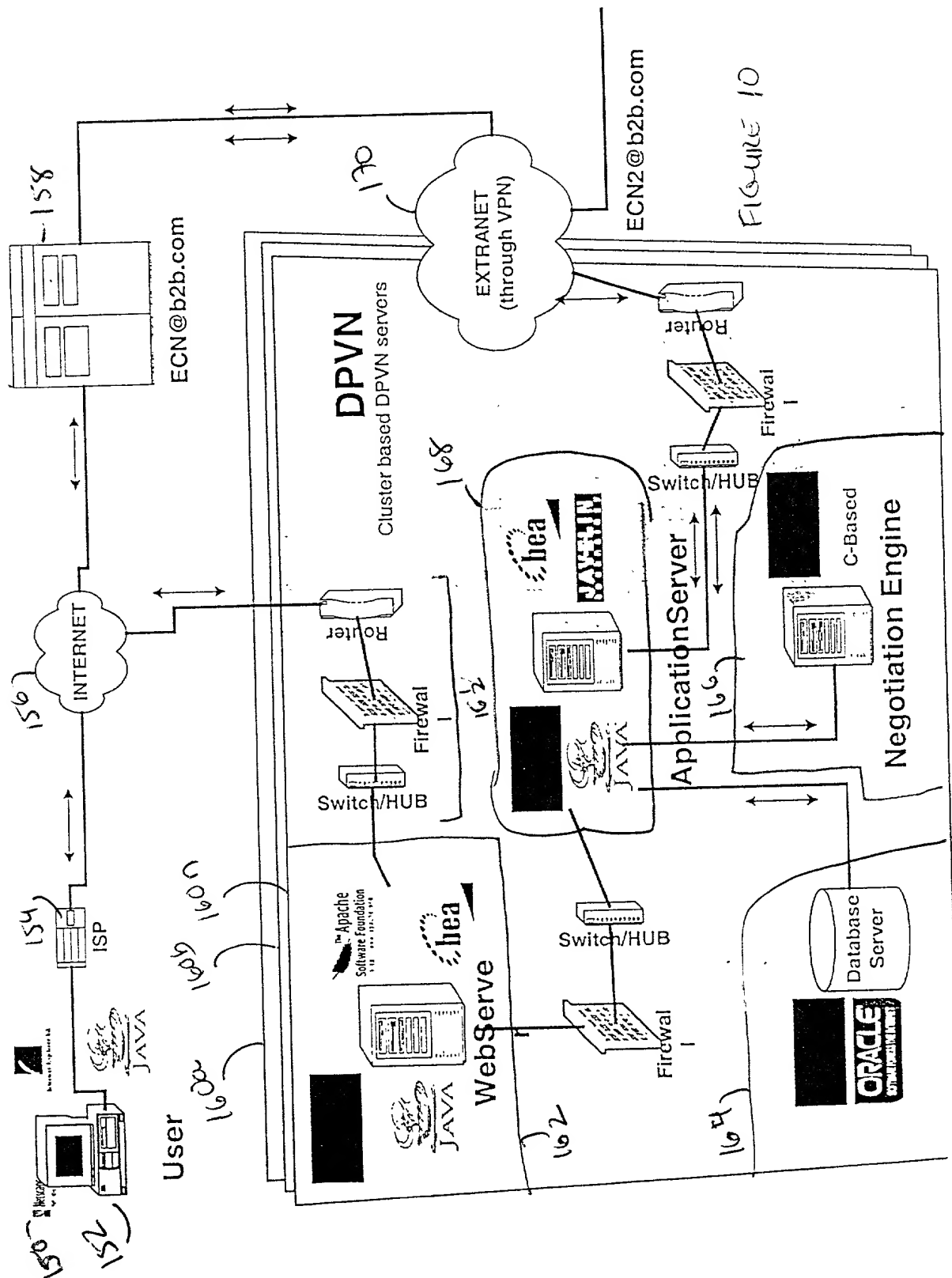
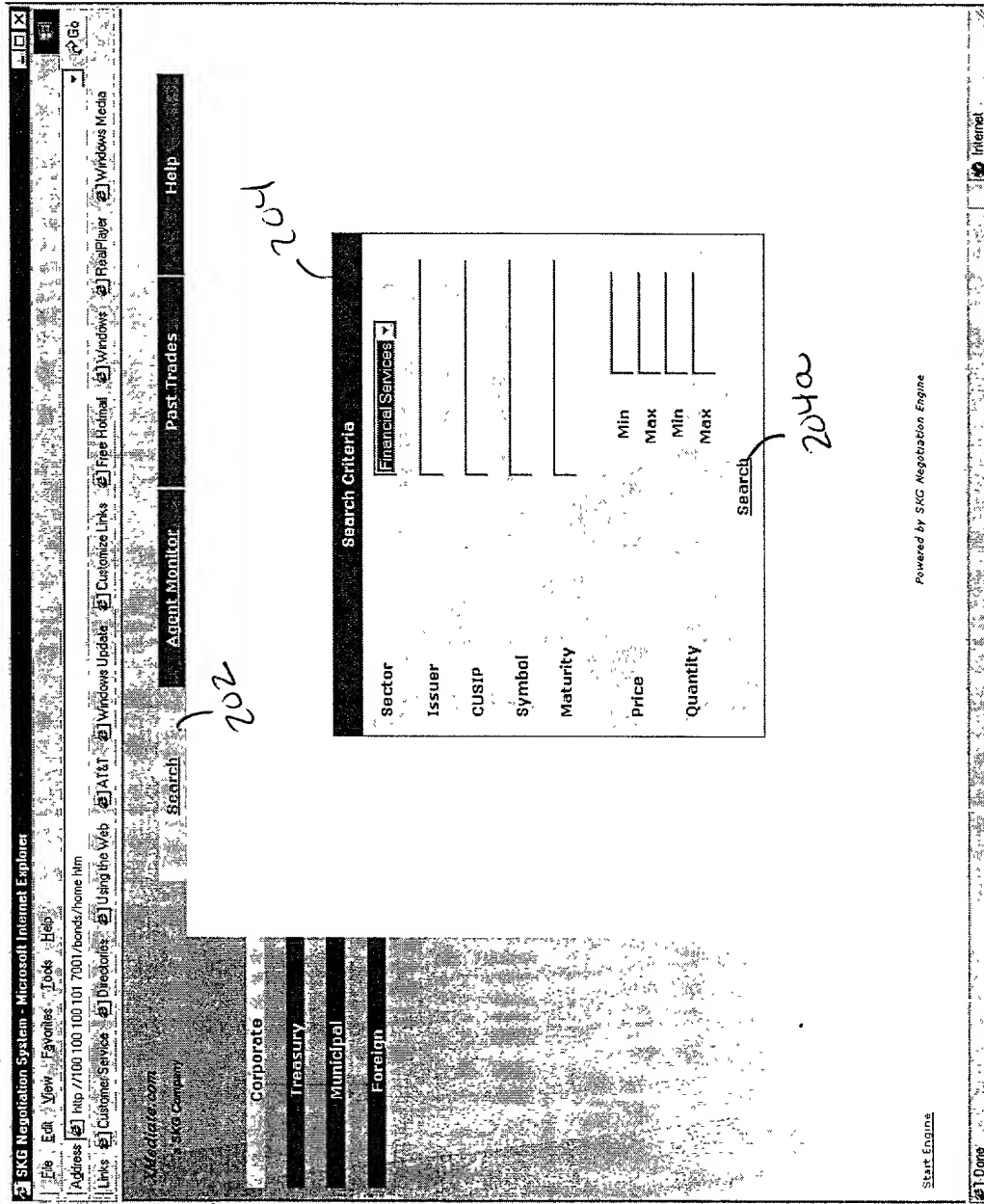


FIGURE 10

2007





200c

FIGURE 13

SKB Negotiation System - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address http://100.100.100.101/7001/bonds/home.htm

Link Customer Service Directories Using the Web AT&T Wiprofit Update Customize Link Free Trial Wiprofit Jhealayer Windows Media

Mediate.com

BOND DETAILS

CUSIP	257651AJ7
ISSUER	Morgan Stanley
MATURITY	03/01/2005
BENCHMARK	05Y
PRICE	100.285
YIELD	7.928
COUPON	8.0%

The Bid Ask Spread for CUSIP: 257AJ7

Bid Price Bid Size Ask Price Ask Size

Start Engine

Trade Attributes

Side Buy Sell

Type Partial All or None

Target Size 240

Target Price 100

MIN Price 98

Partial Fill Min-Max Profile

Size 20

Size Min Price Max Price

Submit Agent

Negotiation Attributes

Price Strategy

Passive

Size Strategy

Size 254

Time Limit for Trade 15 mins

250 252 260 262 264 266 272 274 280 281

281c

281

Powered by SKB Negotiation Engine

09640445 022201

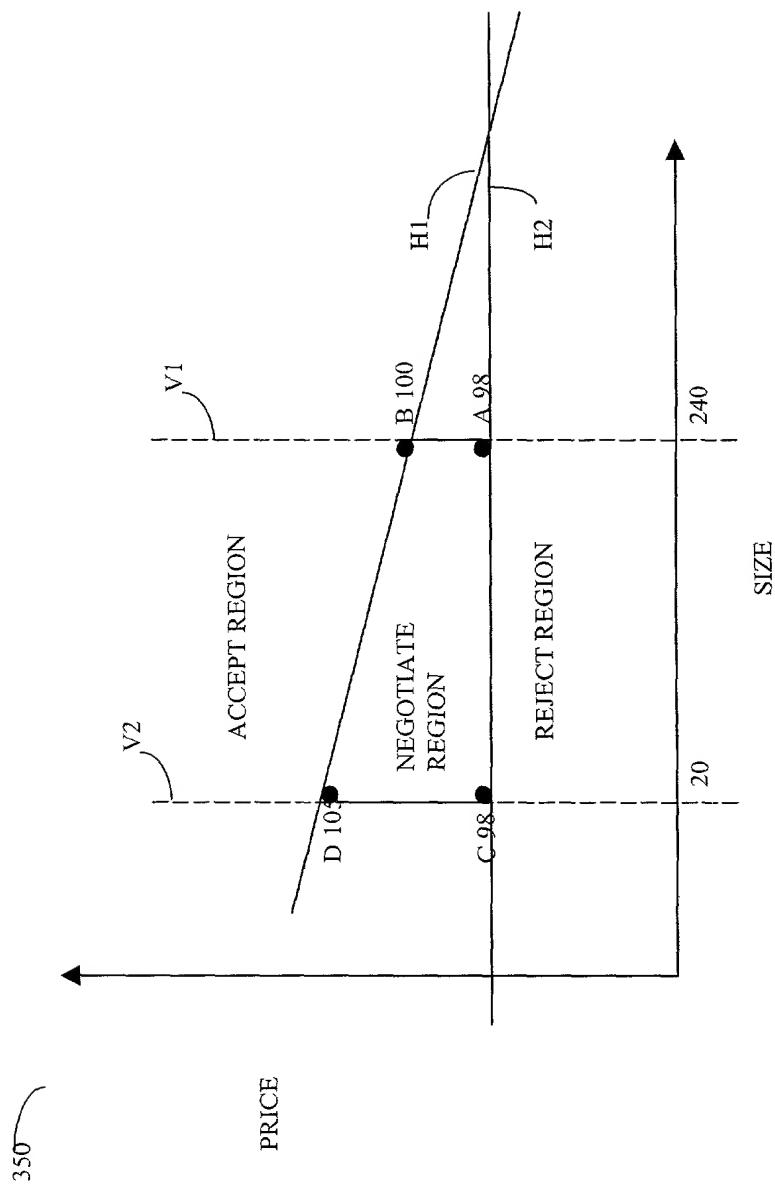


FIGURE 14

2007

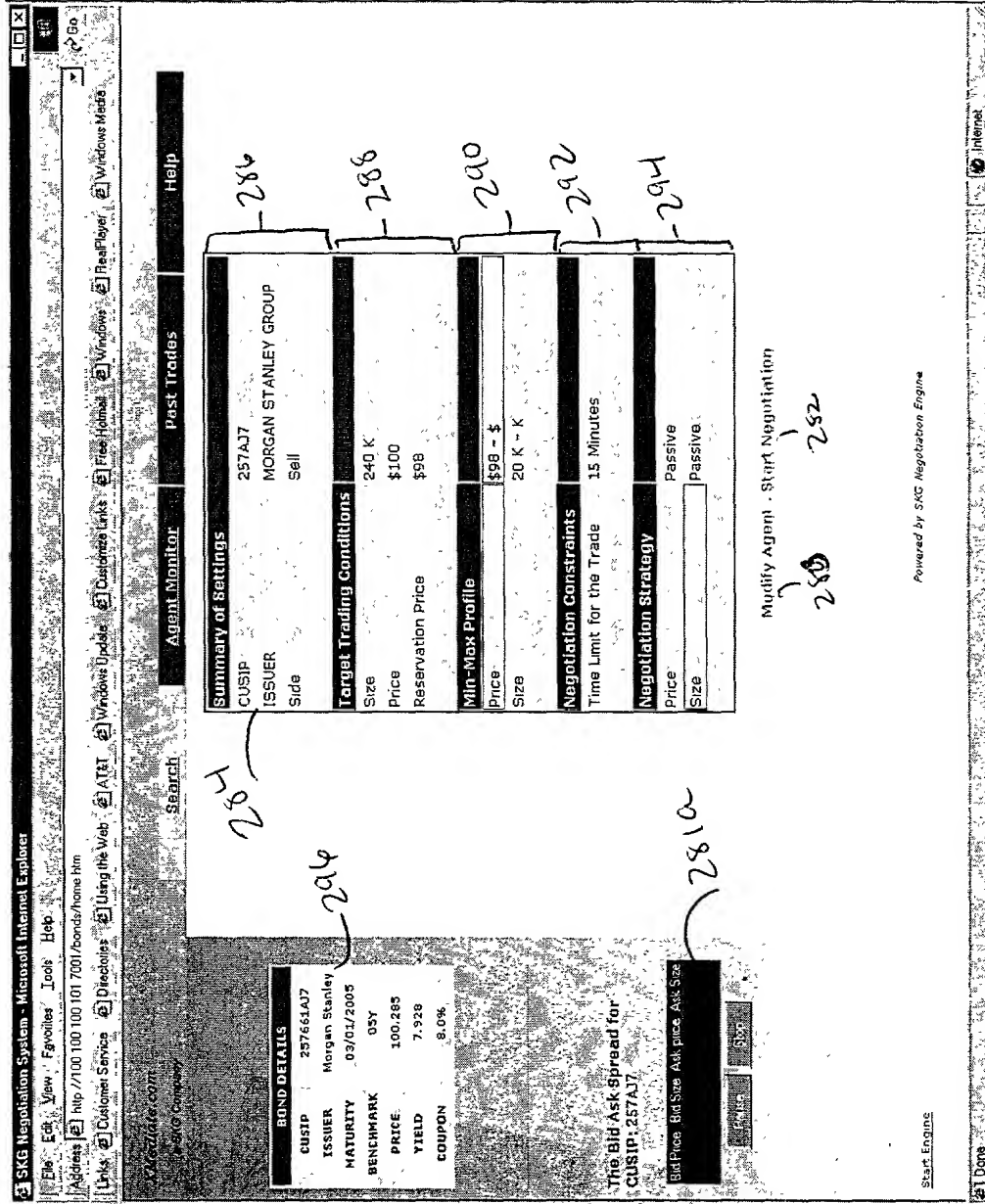
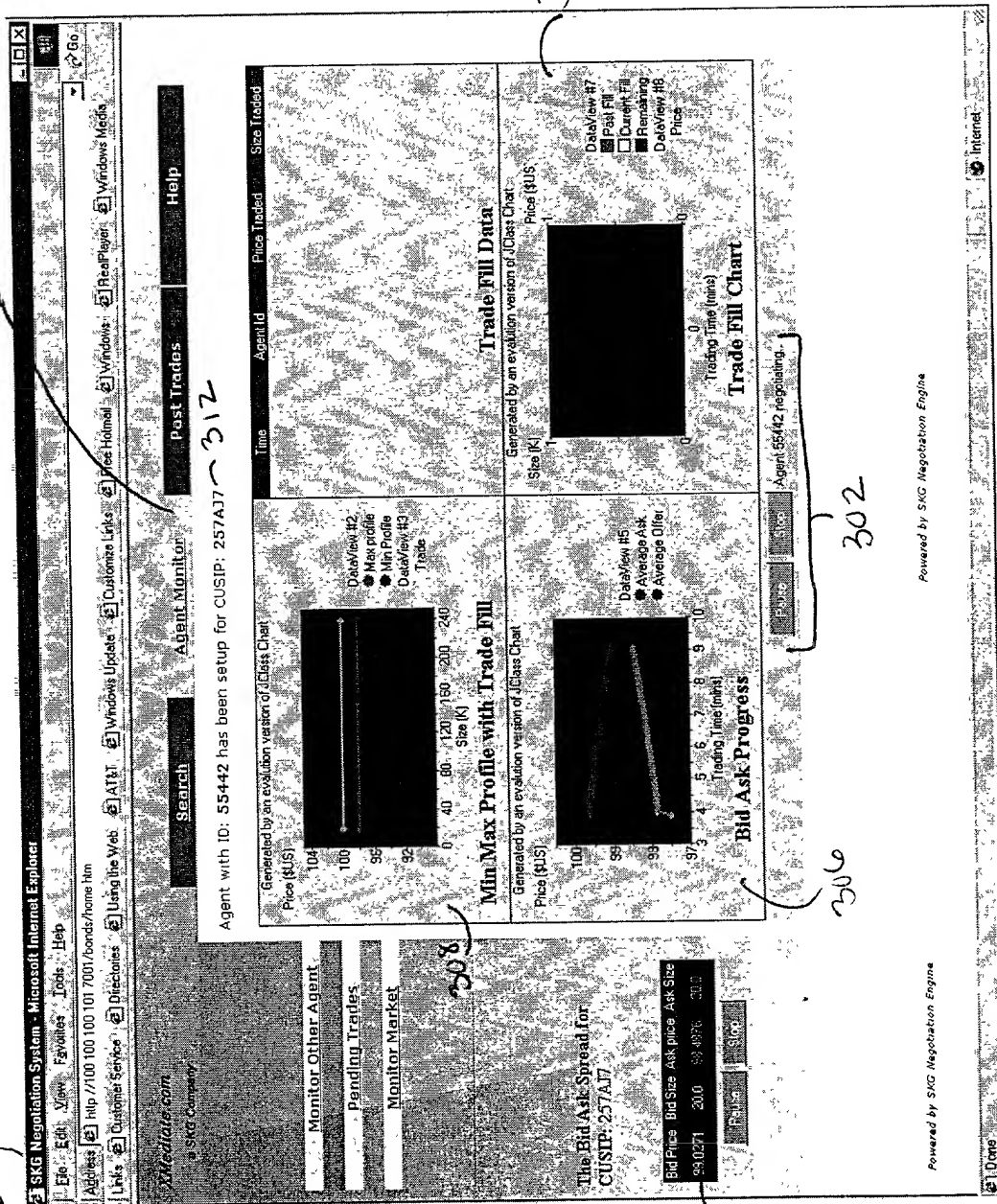


FIGURE 16

200

300



308

304

310

306

302

Powered by SKG Negotiation Engine

Powered by SKG Negotiation Engine

[File](#) [Edit](#) [View](#) [Favorites](#) [Tools](#) [Help](#)
 Address [http://100.100.100.101/7007/bonds/home.htm](#)
[Links](#) [Customer Service](#) [Directory](#) [Using the Web](#) [Alerts](#) [Windows Update](#) [Customer Lists](#) [File Format](#) [Window](#) [RealPlayer](#) [Windows Media](#)

[Mortgage.com](#)
 © 2000 Mortgage.com

[Monitor Other Agent](#)
[Pending Trades](#)
[Monitor Market](#)

The Bid Ask Spread for
 CUSIP: 257A77

Bid Price	Bid Size	Ask Price	Ask Size
98.9345	400	99.0625	400

[Pepper](#) [BGP](#)

Agent with ID: 55442 has been setup for CUSIP: 257A77

[Search](#) [Agent Monitor](#) [Post Trades](#) [Help](#)

338

Generated by an evolution version of JClass Chart

Price (\$US)
 104
102
100
98
96
94
92
90
88
86
84
82
80
78
76
74
72
70
68
66
64
62
60
58
56
54
52
50
48
46
44
42
40
38
36
34
32
30
28
26
24
22
20
18
16
14
12
10
8
6
4
2
0

Size (K)
 0 40 80 120 160 200 240

Delay/View #2
 ● Max Profile
 ● Min Profile
 Delay/View #3
 * Trade

Min Max Profile with Trade Fill

Generated by an evolution version of JClass Chart

Price (\$US)
 104
102
100
98
96
94
92
90
88
86
84
82
80
78
76
74
72
70
68
66
64
62
60
58
56
54
52
50
48
46
44
42
40
38
36
34
32
30
28
26
24
22
20
18
16
14
12
10
8
6
4
2
0

Size (K)
 0 40 80 120 160 200 240

Delay/View #5
 ● Average Ask
 ● Average Offer

Trade Fill Data

Generated by an evolution version of JClass Chart

Price (\$US)
 104
102
100
98
96
94
92
90
88
86
84
82
80
78
76
74
72
70
68
66
64
62
60
58
56
54
52
50
48
46
44
42
40
38
36
34
32
30
28
26
24
22
20
18
16
14
12
10
8
6
4
2
0

Trading Time (mins)
 0 2 4 6 8 10 12

Delay/View #7
 ■ Past Fill
 □ Current Fill
 ■ Remaining
 Delay/View #8
 Price

Trade Fill Chart

Agent 55442 Completed

332 334

Powered by SNG Negotiation Engine

[Done](#) [Internet](#)

FIGURE 17

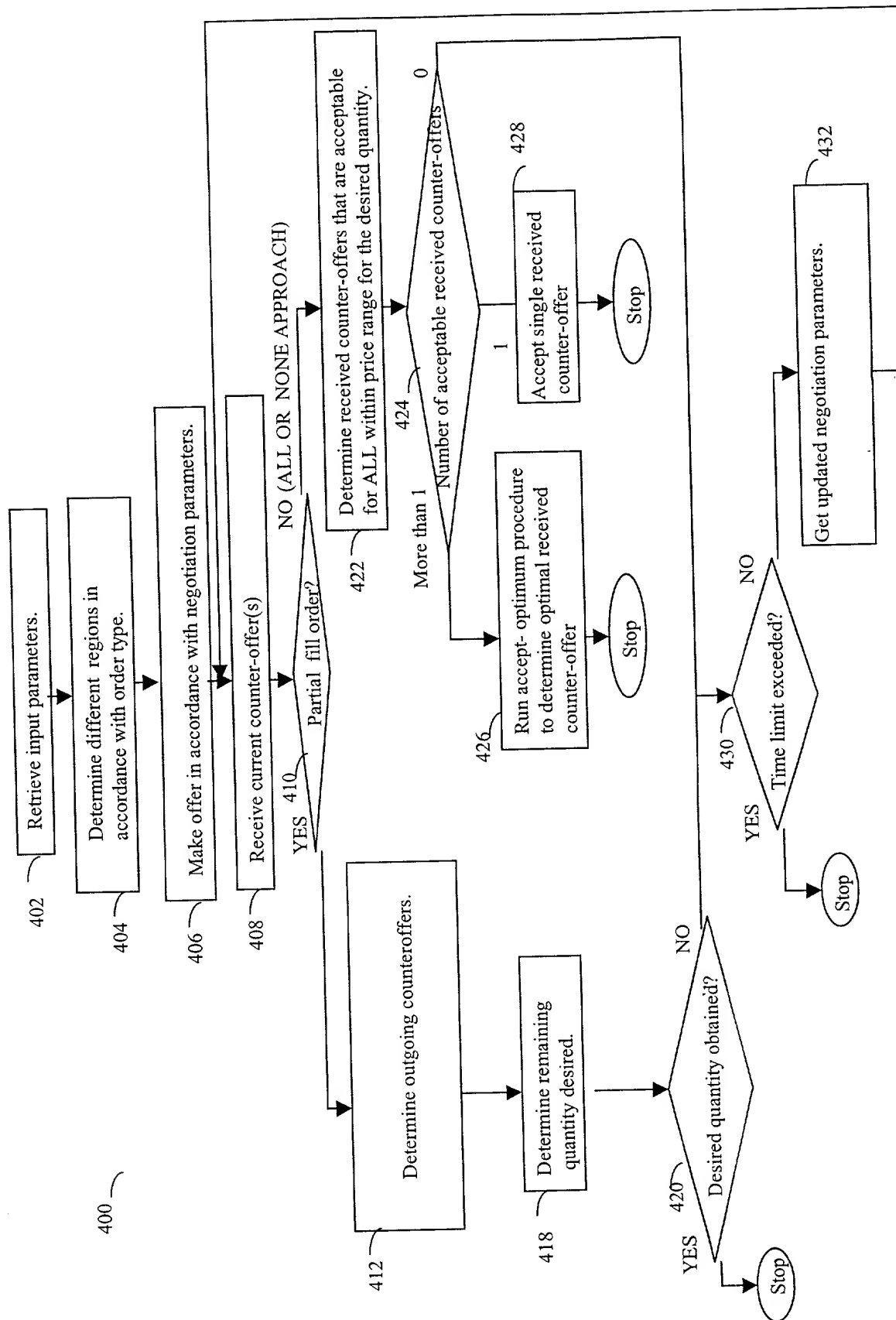


FIGURE 18

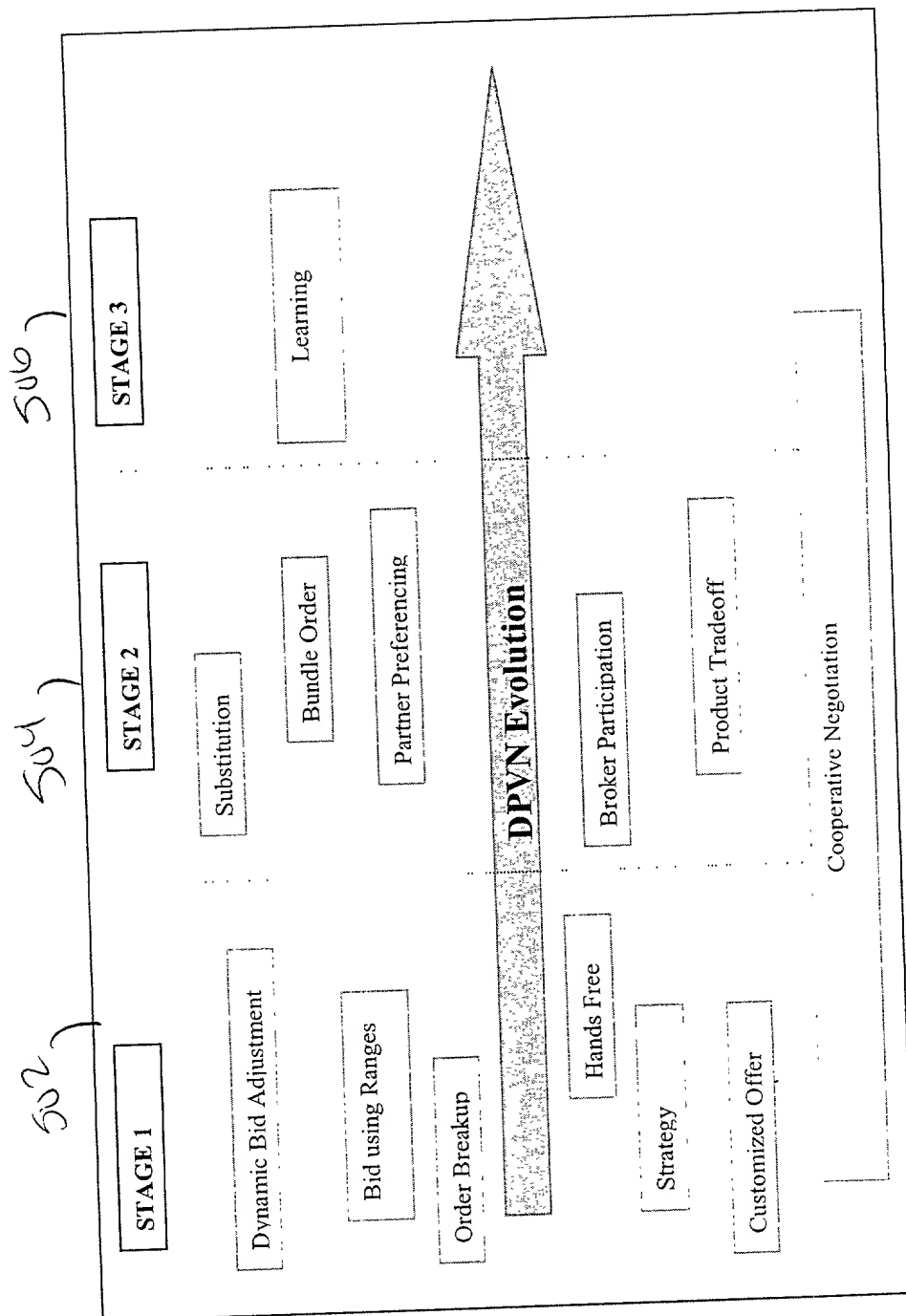


FIGURE 19

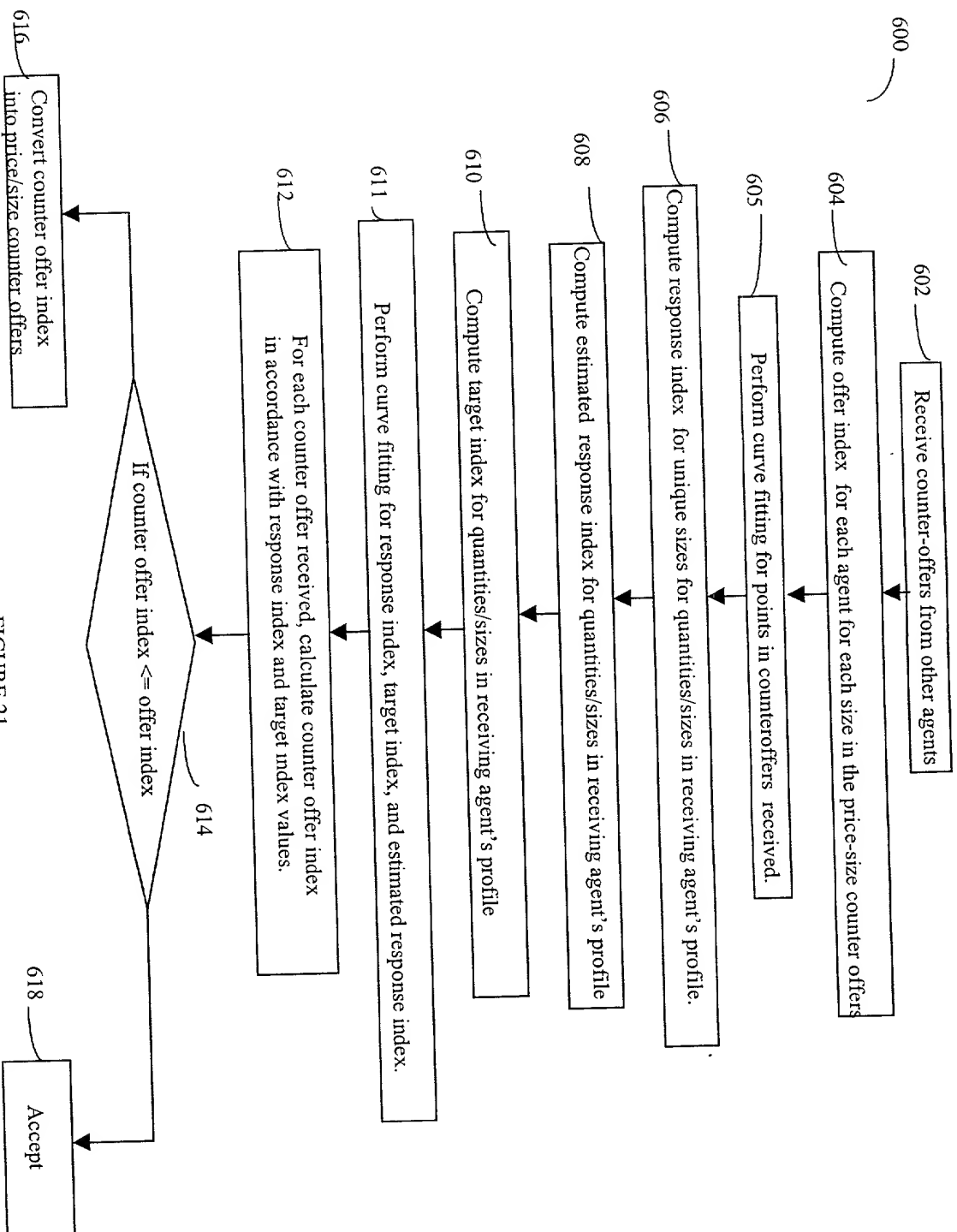


FIGURE 21

CASE 1:	Offer index > target index AND offer index > response index
CASE 2:	Offer index > target index AND offer index < response index
CASE 3:	target index > offer_index AND target index < response index
CASE 4:	offer index > response index AND offer index < target index
CASE 5:	offer index < response index AND response index < target index

FIGURE 22

800)

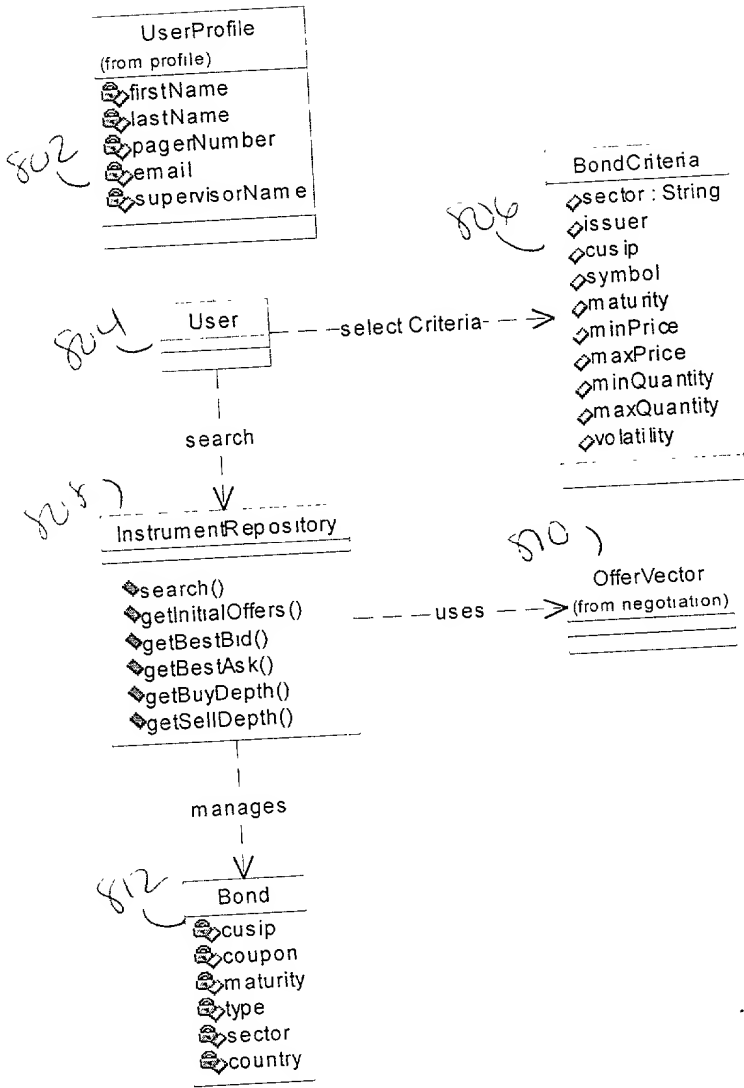


FIGURE 23

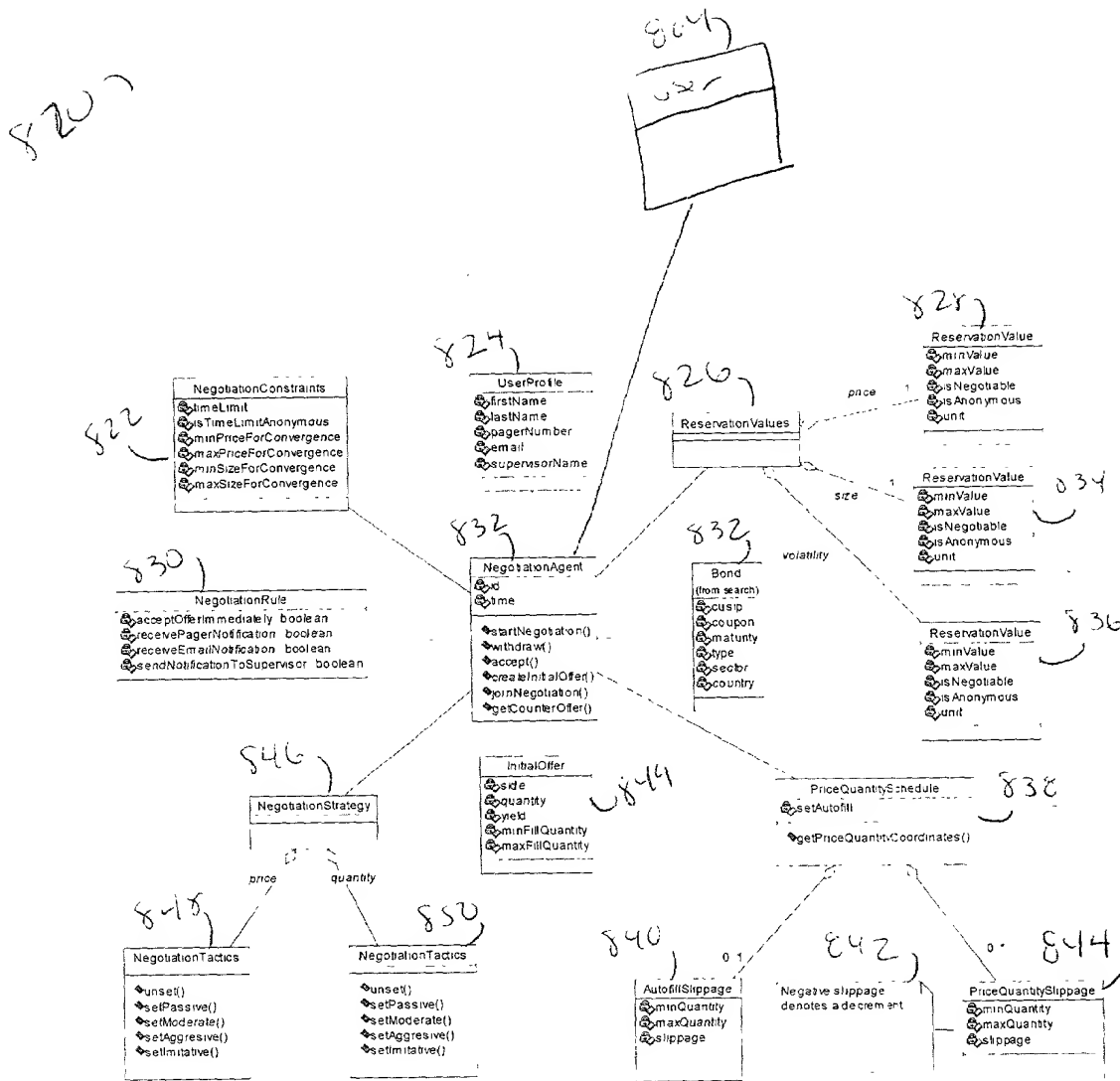


FIGURE 24


```

classDiagram
    class User
    class Inventory {
        +size
    }
    class NegotiationAgent {
        +id
        +time
        +startNegotiation()
        +withdraw()
        +accept()
        +createInitialOffer()
        +joinNegotiation()
        +getCounterOffer()
    }
    class StrategyEngine {
        +calculateOffer()
    }
    class NegotiationAgentProfile["NegotiationAgent (from profile)"] {
        +id
        +time
    }
    class InventoryProfile["Inventory (from profile)"] {
        +size
    }
    class Negotiation {
        +currentStep
        +time
        +outStandingAgent
    }
    class OfferVector {
    }
    class Offer {
        +price
        +size
    }
    class OfferProfile["Offer (from profile)"] {
        +price
        +size
    }

    User --> NegotiationAgent
    User --> NegotiationAgentProfile
    User --> InventoryProfile
    NegotiationAgent --> StrategyEngine
    NegotiationAgentProfile --> NegotiationAgent
    InventoryProfile --> Inventory
    NegotiationAgentProfile --> Negotiation
    NegotiationAgentProfile --> OfferVector
    NegotiationAgentProfile --> OfferProfile
    OfferVector --> Offer
    OfferVector --> OfferProfile
    Offer --> OfferProfile
  
```

Handwritten annotations in the original image:

- 880 (near top left)
- 804a (near top center)
- 884 (near top right)
- 886 (near center)
- 888 (near right)
- 890 (near bottom right)
- 892 (near bottom center)
- 894 (near bottom left)
- 896 (near bottom center)
- 898 (near bottom right)
- 899 (near bottom right)

FIGURE 25